

Dovetail Roof Deck		Sectional Properties (per foot of width)						
	Deck Type	Gauge	Wt/ Ft ²	I _p In. ⁴	S _p +In. ³	S _n ³ -In. ³	Allowable Reaction lbs.	
							End*	Int.*
	2"	22	2.21	0.403	0.290	0.269	598	1425
	2"	20	2.69	0.492	0.362	0.335	881	2023
	2"	18	3.56	0.658	0.485	0.462	1517	3357
2"	16	4.49	0.837	0.619	0.600	2353	5106	

*End Bearing = 2"

*Intermediate Bearing = 4"

Uniform Total Load (Dead and Live) in Pounds Per Square Foot – Span Length C./C. Support												
	Single Span				Double Span				Triple Span			
Gauge	22	20	18	16	22	20	18	16	22	20	18	16
Span												
6'-6"	106	127	167	210	100	125	172	224	125	156	214	279
7'-0"	87	104	135	170	87	108	149	193	108	135	185	241
7'-6"	72	86	112	140	76	94	130	169	94	117	162	210
8'-0"	61	73	94	117	66	83	114	148	83	103	142	185
8'-6"	53	62	80	99	59	73	101	131	73	92	126	164
9'-0"	46	54	69	85	52	65	90	117	66	82	113	146
9'-6"	40	47	60	74	47	59	81	105	59	73	101	130
10'-0"	36	42	53	64	42	53	73	95	53	66	91	113
10'-6"	32	37	47	57	38	48	66	86	48	60	80	99
11'-0"		34	42	51	35	44	60	79	44	55	71	87
11'-6"		31	38	46	32	40	55	72	40	50	63	78
12'-0"			34	41	29	37	51	66	37	45	57	69
12'-6"			32	38	27	34	47	61	34	41	51	63
13'-0"				35	25	31	43	56	31	37	47	57
13'-6"				32	23	29	40	52	29	34	43	52
14'-0"				30	21	27	37	48		32	39	47
14'-6"					20	25	35	45			36	43

- Notes: 1. Loads in shaded areas are governed by live load deflection not in excess of 1/240. As assumed 10 psf dead load is added to deflection.
2. Loads with asterisks (*) are governed by the allowable flexural stress limit of 24 ksi.
3. All other loads are governed by the end or intermediate reactions listed above.

All data taken from manufacturer's catalogs and is presented for estimating purposes only.

Section properties have been determined in accordance with the American Iron and Steel Institute's Specifications for the Design of Cold Formed Steel Structural Members.

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CARRON AND COMPANY